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| L Number | Hits  | Search Text   | DB  | Time stamp          |
|----------|-------|---|---|---------------------|
| -        | 2     | jon.in. and week.in.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:39 |
| -        | 14    | sun.asn. and week.in.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:40 |
| -        | 0     | "24489699"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:45 |
| -        | 0     | buildtron and sun.asn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:45 |
| -        | 0     | buildtron   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:47 |
| -        | 23    | "5953534" or "6463581" or "6536035" or<br>"20020199170"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:52 |
| -        | 0     | ("5953534" or "6463581" or "6536035" or<br>"20020199170") and sun.asn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:47 |
| -        | 14    | week.in. and sun.asn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>07:59 |
| -        | 18486 | (buil\$4 or configur\$5) same (librar\$4 or<br>program\$1) same display\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:01 |
| -        | 8278  | (buil\$4 or configur\$5) same (librar\$4 or<br>program\$1) same display\$3 same user\$2   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:19 |
| -        | 367   | ((buil\$4 or configur\$5) same (librar\$4 or<br>program\$1) same display\$3 same user\$2)<br>and (environment\$3 near3 (character\$4 or<br>parameter\$1 or requir\$5))                      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:35 |
| -        | 50    | ((((buil\$4 or configur\$5) same (librar\$4<br>or program\$1) same display\$3 same<br>user\$2) and (environment\$3 near3<br>(character\$4 or parameter\$1 or<br>requir\$5))) and 717/.ccls. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:03 |
| -        | 2205  | (automatic\$4 or graphical\$3) same (buil\$4<br>or configur\$5) same (librar\$4 or<br>program\$1) same display\$3 same user\$2  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:19 |
| -        | 224   | (automatic\$4 or graphical\$3) same (buil\$4<br>or configur\$5) same (librar\$4) same<br>display\$3 same user\$2  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:20 |

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| - | 55321 | (automatic\$4 or graphical\$3) and (buil\$4 or configur\$5) and (librar\$4 or programs) and (select\$3 or cho\$4) same (computers or machines or systems) and (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:23 |
| - | 6120  | (automatic\$4 or graphical\$3) and (buil\$4 or configur\$5) same (librar\$4 or programs) same(select\$3 or cho\$4) same (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:24 |
| - | 1584  | (automatic\$4 or graphical\$3) same (buil\$4 or configur\$5) same (librar\$4 or programs) same(select\$3 or cho\$4) same (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:24 |
| - | 3693  | (automatic\$4 or graphical\$3 or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs) same(select\$3 or cho\$4) same (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:25 |
| - | 749   | (automatic\$4 or graphical\$3 or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:54 |
| - | 64    | ((automatic\$4 or graphical\$3 or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2) and 717/.ccls.                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:26 |
| - | 779   | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:38 |
| - | 65    | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2) and 717/.ccls. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>08:56 |
| - | 249   | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) same display\$3 same user\$2                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:18 |

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| - | 117  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:36 |
| - | 147  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target or machine\$1)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:02 |
| - | 111  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target or machine\$1)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))) not ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) same display\$3 same user\$2) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:37 |
| - | 2088 | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:48 |
| - | 413  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target or machine\$1)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:39 |

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| - | 266   | (((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target or machine\$1)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))) not (((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and 717/.cccls.) or ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) same display\$3 same user\$2) or (((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and ((environment\$3 or target or machine\$1)near3 (character\$4 or factor\$1 or parameter\$1 or requir\$5))) not ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2))) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>09:42 |
| - | 44    | ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$routines or libraries) and display\$3 same user\$2) and sun.asn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:26 |
| - | 13    | carlson.in. and sun.asn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:26 |
| - | 46818 | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) near3 (manag\$4 or tool or software)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:50 |
| - | 1281  | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:51 |

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| - | 1875 | (automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:52 |
| - | 2167 | (automatic\$4 or graphical\$3 or visual or tool or software or method) near buildtron (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:52 |
| - | 1302 | (automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:13 |
| - | 1195 | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 or check\$4 or remov\$3 or log\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>12:18 |
| - | 20   | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 or check\$4 or remov\$3 or log\$4) same (build\$3 or configur\$4) near2 option\$1   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>10:54 |
| - | 13   | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 or check\$4 or remov\$3 or log\$4)) and sun.asn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>12:14 |
| - | 13   | ((((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 or check\$4 or remov\$3 or log\$4)) and sun.asn.) not (((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 or check\$4 or remov\$3 or log\$4) same (build\$3 or configur\$4) near2 option\$1) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>12:14 |
| - | 282  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 and check\$4 and remov\$3 and log\$4)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>12:18 |

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| - | 281  | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 and check\$4 and remov\$3 and log\$4)) not ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$1routines or libraries) and display\$3 same user\$2) and sun.asn.) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>12:19 |
| - | 2    | "09503485"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:02 |
| - | 13   | ((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (librar\$4 near4 select\$3) same (target or execution or environment )  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:16 |
| - | 19   | (build\$3 or configur\$4) same (librar\$4 near4 select\$3) same (target or execution or environment ) same user\$1   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:18 |
| - | 139  | (build\$3 or configur\$4) and (librar\$4 near4 select\$3) same (target or execution or environment ) same user\$1  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:24 |
| - | 4057 | (build\$3 or configur\$4) and (librar\$4 near4 select\$3) and (target or execution or environment ) and user\$1  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:25 |
| - | 1008 | (build\$3 or configur\$4) and user\$1 same (librar\$4 near4 select\$3) and (target or execution or environment )   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:26 |
| - | 869  | ((build\$3 or configur\$4) and user\$1 same (librar\$4 near4 select\$3) and (target or execution or environment ) ) not ((build\$3 or configur\$4) and (librar\$4 near4 select\$3) same (target or execution or environment ) same user\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:26 |

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| - | 842 | (((build\$3 or configur\$4) and user\$1 same (librar\$4 near4 select\$3) and (target or execution or environment ) ) not ((build\$3 or configur\$4) and (librar\$4 near4 select\$3) same (target or execution or environment ) same user\$1)) not (((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 and check\$4 and remov\$3 and log\$4)) not ((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2) and sun.asn.))                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:27 |
| - | 46  | (((build\$3 or configur\$4) and user\$1 same (librar\$4 near4 select\$3) and (target or execution or environment ) ) not ((build\$3 or configur\$4) and (librar\$4 near4 select\$3) same (target or execution or environment ) same user\$1)) not (((automatic\$4 or graphical\$3 or visual or tool or software or method) near5 (buil\$4 or configur\$5) near3 (manag\$4 or tool or software) same (user\$1 or administra\$4) near3 (select\$3 or cho\$4 or input\$3)) and (test\$4 and check\$4 and remov\$3 and log\$4)) not (((automatic\$4 or graphical\$3 or visual or tool or software or method) same (buil\$4 or configur\$5) same (librar\$4 or programs or project\$1 or package\$1) same(select\$3 or cho\$4 or option\$3 or input\$3 or enter\$3) near4 (computers or machines or systems) same (programs or modules or routines or sub\$lroutines or libraries) and display\$3 same user\$2) and sun.asn.))) and 717/.ccls. | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/05/28<br>13:27 |





PALM INTRANET

Day : Saturday  
Date: 5/29/2004  
Time: 19:31:46

## Inventor Name Search Result

Your Search was:

Last Name = WEEK

First Name = JON

| Application#    | Patent#        | Status | Date Filed | Title   | Inventor Name 6        |
|-----------------|----------------|--------|------------|---|------------------------|
| <u>10372020</u> | Not Issued     | 030    | 02/21/2003 | WORKLOAD<br>POST-PROCESSING AND<br>PARAMETERIZATION FOR A<br>SYSTEM FOR<br>PERFORMANCE TESTING OF<br>N-TIERED COMPUTER<br>SYSTEMS USING<br>RECORDING AND<br>PLAYBACK OF WORKLOADS | WEEKS,<br>JONATHAN B.  |
| <u>10372018</u> | Not Issued     | 030    | 02/21/2003 | INSTRUMENTATION AND<br>WORKLOAD RECORDING<br>FOR A SYSTEM FOR<br>PERFORMANCE TESTING OF<br>N-TIERED COMPUTER<br>SYSTEMS USING<br>RECORDING AND<br>PLAYBACK OF WORKLOADS           | WEEKS,<br>JONATHAN B.  |
| <u>09879440</u> | Not Issued     | 030    | 06/11/2001 | SYSTEM AND METHOD FOR<br>BUILDING LIBRARIES AND<br>GROUPS OF COMPUTER<br>PROGRAMS   | WEEK, JON J.           |
| <u>09244896</u> | Not Issued     | 161    | 02/04/1999 | METHOD AND SYSTEM<br>SYSTEM FOR MANAGING<br>AND DISPLAYING LARGE<br>BUILD SYSTEMS   | WEEK, JON J.           |
| <u>07214449</u> | <u>4832398</u> | 150    | 07/01/1988 | SCUBA TANK HOLDER AND<br>CARRIER  | WEEKS ,<br>JONATHAN N. |
| <u>07103720</u> | <u>4754996</u> | 150    | 10/02/1987 | SCUBA TANK HOLDER AND<br>CARRIER  | WEEKS ,<br>JONATHAN N. |

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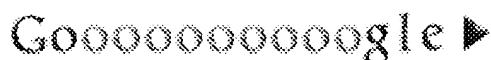
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# Configuring the Library Optimizer Tool

## Python Support

The Library Optimizer is written in the script language Python. Python support must be installed in the host environment. Python is available for most Linux distributions as well as several other operating system environments. All the Python components required by the Library Optimizer are normally included with even the most basic Python installations.

## Runtime Environment

The Library Optimizer Tool expects certain items to be located in specific places.

### Object Tools

The Library Optimizer uses the programs "objdump" and "nm" to collect information about library object files, shared libraries and executable programs. These programs, or links to them, must be located in the same directory from which the Library Optimizer scripts are executed.

These programs must also be named with the same prefix as the Library Optimizer scripts, if any. For instance, if the Library Optimizer is invoked as "ppc\_8xx-libopt", then the "objdump" program must be named "ppc\_8xx-objdump".

The combination of these features allows tools for multiple architecture to be present in the host environment without conflicting or requiring complicated invocation procedures.

### Library Information

The Library Optimizer works by rebuilding the target library with only the component object files required to support the executable programs and shared libraries found in the target filesystem. In order to rebuild the library, it must have access to the build instructions for the library, the original library object files, and any other special files required to rebuild the library.

The Library Optimizer searches for this library information relative to the directory from which the Library Optimizer scripts are executed. If "bin" is this directory, the Library Optimizer searches the directory "bin/./target/usr/lib/optinfo" for the library information. Within this directory, it looks at each subdirectory to see if it contains valid library information. If it does, it adds that information to the data it will use to optimize libraries in the target filesystem. See below for information about how valid library information is structured.

## Library Information Structure

Within the directory which the Library Optimizer searches for library information, there should be a subdirectory for each library for which optimization is supported. The following files must be present in each valid subdirectory:

- path

- index
- build

Each of these files is described in detail below.

There may also be other files in a subdirectory as required to build the associated library. In general, either an archive of the original library object files or the individual object files themselves will be present.

### **path**

This file contains the path of the library file in the target filesystem (e.g. "/lib/libc-2.1.3.so"). This should not be the path of any associated symbolic links to the library, but rather the actual object file itself. This is the file in the target filesystem that will be replaced by the optimized library.

### **index**

This file contains information about the symbols exported and required by each of the object files that make up the target library. This information is extracted from the library object files and stored in a simplified form to reduce the execution time of the Library Optimizer in an interactive development environment.

The Library Optimizer "libindex" script is used to generate this index from the original object files used to build the target library. For most libraries, the index can be generated by invoking the "libindex" script as follows:

```
libindex <shlib> <object>... > index
```

<shlib> must be the original unoptimized target library.

If there are certain object files which must always be included in order to build a valid library, these required object files should be specified as follows:

```
libindex <shlib> -r <required_object>... -o <optional_object>... > index
```

### **build**

This is a script or program which contains the instructions to rebuild the target library. See [below](#) for information about the arguments and runtime environment of the build script.

## **Library Build Script**

When the library build script is invoked, the current directory is the library information directory where the build script is located. It is invoked with the following argument list:

```
build <archdir> <archprefix> <dest> <strip> <object>...
```

Each of these arguments are described in detail below.

A sample script that was used to rebuild the GNU C library can be seen [here](#).

**archdir**

This is the parent directory of the directory from which the Library Optimizer was invoked. In the Hard Hat Linux environment, "<archdir>/bin" contains the compiler and other architecture-dependent tools, and "<archdir>/target" contains installed target binaries.

**archprefix**

This is the prefix with which the Library Optimizer was invoked (e.g. "ppc\_8xx-" for "ppc\_8xx-libopt"). It can be used as a prefix for other tools (e.g. "<archprefix>gcc").

**dest**

This is the full path name where the rebuilt library should be placed.

**strip**

Contains "strip" if the rebuilt library should be stripped, "nostrip" otherwise.

**object...**

This is a list of the optional object files that should be included in the rebuilt library. Required object file names are never passed to the build script; it's assumed that the build script will always include them.

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## Automates the Build Process

Visual Build automates common tasks that must be performed when building applications. It can retrieve the latest source code, initialize registry settings, build source code projects, check in executables, create installers, and more. It executes all the tedious steps that must be performed over and over, ensuring that all steps have been successfully completed. If any step fails, the error is reported and continues from the point of failure after the problem has been resolved.

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Visual Build allows developers to create a repeatable process for building a powerful but affordable build management solution that automates the build process, saving a huge commitment of time, and it works with the tools you're using today. Visual Build 2.0 is an upgrade with lots of new features, samples, and help.



## Key Features

- Provides an intuitive Windows interface. Tooltips are used extensively.
- Built-in support for Microsoft Visual Studio and Borland development tools integrated with virtually any third-party or home-grown tool.
- Powerful macro concept easily handles complex development scenarios.
- Unlimited capabilities when used in conjunction with Windows Script Host.

## Availability and System Requirements

Visual Build runs on Windows 95, 98, NT, and 2000 and sells for \$79.95 per user (discounts available). A trial version can be downloaded from the company's website. For more information contact **Kinook Software, 719-599-0442; fax 530-658-9555** [www.kinook.com](http://www.kinook.com).

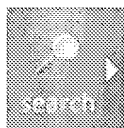
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**Screenshots:** <http://www.kinook.com/VisBuild.html>

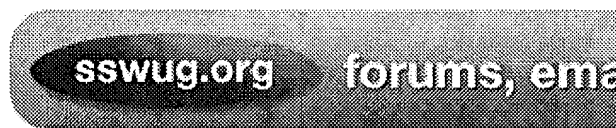
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Based in Colorado Springs, CO, Kinook Software creates productivity tools developers.

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## Performance WorkShop Fortran

### Product Overview

**Sun™ Performance WorkShop™ Fortran** is an integrated environment designed to speed software development for you and your team.

---

#### Document Contents:

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---

Performance WorkShop includes:

- [Get the maximum performance from your Fortran 90<sup>\\*\\*</sup>, FORTRAN 77 and C applications](#)
- [Take advantage of multi-processor hardware with automatic code threading and threaded libraries](#)
- [Visually check algorithm correctness with interactive data visualization](#)
- [Easily edit, compile, build, and debug your code](#)
- [Coordinate team development efficiently and effectively](#)

### Get the Maximum Performance from Your Applications

Sun Performance WorkShop Fortran provides three powerful optimizing compilers that allow you to get the best possible performance from your application. Sun WorkShop™

Compiler Fortran 90<sup>\*</sup> provides all the advantages of the Fortran 90 standard, including an improved ability to express mathematical formulas more directly in the source code, resulting in improved developer productivity. Sun WorkShop Compiler FORTRAN 77 delivers peak performance for computationally intensive applications, and Sun WorkShop Compiler C enables optimized calls to the extensive Solaris™ system libraries.

### Take Advantage of Multi- Processor Hardware

WorkShop multithreading development tools and Sun Performance Library™ enable you to harness the power of multiprocessing systems. The Performance WorkShop enhances the compilers with powerful capabilities to automatically -parallelize your existing code. During optimization, loops are automatically detected and code generated that will execute across multiple processors, if they are available.

Sun Performance Library provides threaded versions of the most popular basic scientific routines, complementing your multi-threaded application or allowing your single threaded application to realise the performance benefits of threading.

### **Visually Check Algorithm Correctness with Interactive Data Visualization**

Examining the contents of a large data array is very difficult using a traditional, text oriented interface. The debugging subsystem of Performance WorkShop now provides a Data Visualization capability, which allows you to graphically see the contents of an array at any breakpoint. Algorithmic errors can be quickly detected and, using the Fix-and-Continue feature, corrected in the same debugging session. The result is shorter development cycles and error free applications.

### **Easily Edit, Compile, Build, and Debug Your Code**

WorkShop makes programming easy and fast. Browsing source code and debugging binaries is seamlessly merged with editing through the tightly integrated EMACS and vi editors. Compilation is performed with a few simple mouse clicks in the integrated build system, and compilation errors provide hypertext links into the source editor for the fastest possible correction. Combined with the Run Time Checking and Fix-and-Continue capabilities of the debugging system, WorkShop enables developers to produce the highest quality code in the shortest possible time.

### **Coordinate Team Development Efficiently and Effectively**

Sun WorkShop software configuration management tools facilitate the management of a team's software development activities even when distributed among multiple sites. We provide automated tools that improve a team's productivity by allowing team members to work in parallel, coordinate, integrate, and build a product. These tools are easy to learn, easy to use, easy to administer, and complete scalable.

## Specifications

### New in This Release

- Integrated Programming Environment
- Motif User Interfaces
- Data Visualization
- Improved Global Program Checking
- Improved On-Line Help
- On-line Video Overview

### Sun Performance WorkShop Fortran Version 3.0 Includes:

#### Integrated Programming Environment

##### *Debugger*

- Graphical and command line support
- Integrated, on-demand runtime error checking
- Fix and Continue
- Stack and data inspectors
- Data Visualization
- Debugger command language
- Collection of runtime performance statistics
- Debugging of
  - Shared libraries
  - Dynamically linked libraries
  - Running processes
  - Assembly language programs
  - Mixed language applications
- Set conditional breakpoints, post break modifiers, watchpoints

##### *Performance Analyzer*

- Graphical display of user, system, I/O, and page fault times
- Generate optimized linker load map

##### *SourceBrowser<sup>®</sup> and F90browse*

- Query source code base
- Display function call tree

##### *FileMerge*

- Visual file comparison
- Two and three way comparisons
- Interactive and automatic merging

### *MakeTool*

- Graphical interface to the UNIX® *make* utility

### **WorkShop Compiler Fortran 90 Language System Version 1.2**

- Full implementation of the standard
  - ANSI X3.198-1992
  - ISO 1539:1991
- Language compatibility
  - Cray supercomputer extensions
- Additional features
  - Global Program Checking
  - POSIX binding
  - Compatible calling with WorkShop Compiler FORTRAN 77
  - I/O interoperability with FORTRAN 77

### **WorkShop Compiler FORTRAN 77 Language System Version 4.2**

- Standards
  - ANSI X3.9-1978 FORTRAN
  - ISO 1539:1980
  - MIL-STD 1753
  - FIPS 69-1 BS6832
  - UltraSPARC and SuperSPARC optimization
  - Language compatibility
  - VAX VMS FORTRAN 5.0 extensions (namelist, DO WHILE, structures, records, unions, maps, quadruple precision arithmetic)
  - Cray supercomputer POINTER data type
- Additional features
  - Global Program Checking
  - POSIX binding
  - Compatible calling with WorkShop Compiler Fortran 90
  - Interlanguage calling with WorkShop Compiler C, C++, Pascal, and Ada

### **WorkShop Compiler Fortran 90 and FORTRAN 77 Development Utilities**

- Incremental linker
- Compiler diagnostics listings (error)
- UNIX output filter (asa)
- Cross reference report generator (-Xlist option)
- Test Coverage report generator (tcov)<sup>1</sup>

### **WorkShop Compiler Fortran 90 and FORTRAN 77 Math Library**

- IEEE 754 floating point arithmetic standard
- Single, double, and quadruple<sup>1</sup> floating point numeric formats
- Algebraic, transcendental, rounding, conversion, and random number functions
- Table driven algorithms for maximum speed and accuracy
- User customizable exception handling

### **WorkShop Compiler C Language System Version 4.2**

- ANSI C X3.159-1989, K&R C
- Mixed mode eases K&R to ANSI C transition
- UltraSPARC and SuperSPARC™ optimization
- Incremental linker

### **Sun Performance Library**

- Optimized numerical algorithm libraries boost performance
  - LAPACK
  - BLAS 1,2,3
  - FFTPACK
  - VFFTPACK
  - LINPACK
- Support for single or multi-processor systems
- Callable from all WorkShop Compiler Language Systems

### **Multithreaded Development Tools**

#### *WorkShop Compiler Fortran 90, FORTRAN 77 and C MP Extension for Multiprocessing Optimizations*

- Automatic parallelization
  - Detects loops that can be executed in parallel and generates code to distribute execution on SPARC™ MP systems
  - Integrated in compiler optimization phases, avoiding source code preprocessing
  - Parallel analysis supports both MP parallelization and instruction level parallelism
  - Parallel specific optimization: loop restructuring, code multi-versioning
  - Reduction recognition allows summations to be parallelized

- Explicit parallelization (Fortran only)
  - Generates information showing best loop candidates for explicit parallelization
  - DOALL directive forces parallelization
  - Source code compatibility maintained with comment style directives
- Thread Analyzer for collection and graphical display of performance data for multithreaded applications
- LoopTool<sup>1</sup>
  - Browsing of parallel and sequential loops
  - Instrumentation and collection of loop performance data
  - Graphical display of loop performance
  - Source code hints to assist explicit parallelization
- LockLint for detection of synchronization errors in multithreaded C programs

### **WorkShop TeamWare Team Source Management Tool Version 2.0**

#### *Version and Change Control*

- Supports all types of files, ASCII and binary
- Supports both serial and parallel development
- Graphically compares two file versions against each other or against a common reference version
- Automatically merges non-overlapping changes

#### *Configuration Management*

- Supports public and private workspaces or views as configurations
- Workspaces are arranged in a hierarchy, allowing flexible organization, manipulation, and management of data
- Snapshots/baselines of workspaces can be taken at any time
- Supports conflict management and resolution for workspace configuration
- Executes build jobs in parallel on multiple machines distributed on a network
- Visually review build jobs' execution and completion status

#### *Administration and Usability*

- A separate administrator is not required
- Easy incorporation of standard UNIX files
- Easy incorporation of SCCS files



- Load and go support for RCS files
- Intuitive graphical user interface supporting drag and drop
- Easy-to-use command line interface
- Compatible with standard UNIX tools

### **Sun Performance WorkShop Fortran Documentation**

- Hard copy and/or on-line documentation
  - Fortran User's Guide
  - Fortran Programmer's Guide
  - Fortran Library Reference
  - Fortran 90 Handbook (on-line only)
  - FORTRAN 77 Language Reference
  - Fortran 90 Browser
  - Sun Performance Library Reference Manual
  - Numerical Computation Guide
  - Performance Profiling Tools
  - WorkShop TeamWare documentation
  - WorkShop Installation Guide
- AnswerBook on-line documentation
  - Complete documentation set
  - Document printing
  - Hypertext links between documents
  - Keyword and full text searches
- Magnify Help context-sensitive on-line help
- UNIX *man* pages

### **Sun Performance WorkShop Fortran Licensing**

- All tools use flexible network licensing
- Licensing of concurrent usage of tools
- Royalty free runtime library (.so's) distribution
- Multiple licensing pack and volume licensing programs available

### **System Requirements**

- Hardware
    - SPARC system or compatible
    - Intel Pentium (except for Fortran 90 features<sup>\*\*\*</sup>)
    - 64 MB of memory
    - 128 MB of swap space
    - 125 MB of disk space
    - CD-ROM drive for installation
  - Software
    - Solaris 2.4, 2.5, 2.5.1, or 2.6
-

**\* This product derived from Cray CF90™, a product of Cray Research**

**\*\* F90 features available for SPARC platforms only**

**1. Feature not supported for this release of WorkShop Compiler  
Fortran 90**

*Specifications are subject to change without notice.*

[

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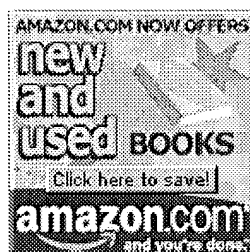
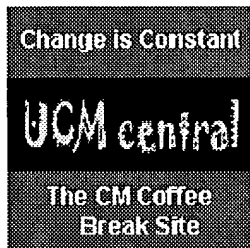
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AllChange, Borland  
StarTeam,  
IssueView and  
Openmake.

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Executing commands according to rules instead of in the order in which they appear is a great idea which gave us famous make. Bras is a similar rule-based tool that uses syntax and has other extensions that are more easily used and specified.

<http://wsd.iitb.fhg.de/~kir/brashome/>

(Added: Fri Mar 01 2002 Hits: 62 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **buildForge - Build Process Management and Automation**

buildForge manages and automates the software build process, bringing the critical process knowledge together, while still maintaining controlled access. Builds can be managed, executed, scheduled and statuses checked from an easy to use browse interface. Builds can be extended for developer execution within a sandbox, while maintaining control of the production build system. Centralized build process management allows build to be executed from a single location to multiple systems and platform

<http://www.buildforge.com>

(Added: Tue Sep 03 2002 Hits: 384 Rating: 7.29 Votes: 21) [Rate It](#) [Review It](#)

- **BuildRef and other RCS utilities**

"BuildRef is a tool used by build tools to facilitate searching of baseline builds for files in development areas. The search mechanism is quite general and is not project-specific. Other utilities RCS/CVS utilities at this site are: EMFS (a poor man's redundant file system that uses email as a transport mechanism to keep text files in synch across multiple servers); LMerge (provides 2-way merging of unsorted text files); RInfo (reads metadata from version archive files); RmMagic (removes "magic" branches from RCS files). Also provided is Software ChipSet: a small production-quality library of reusable software components written in C."

<http://www.sander.cupertino.ca.us/source.html>

(Added: Fri Mar 01 2002 Hits: 60 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Cons - a software construction system**

[http://www.perl.org/CPAN/authors/Bob\\_Sidebotham/cons\\_1.1.readme](http://www.perl.org/CPAN/authors/Bob_Sidebotham/cons_1.1.readme)

(Added: Fri Mar 01 2002 Hits: 77 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Cook - a software build tool**

Cook is a tool for constructing files. It is given a set of files to create, and recipes to create them. In any non-trivial program there will be prerequisites to performing the necessary to creating any file, such as include files. Cook provides a mechanism to handle these. When a program is being developed or maintained, the programmer will typically change one file of several which comprise the program. Cook examines the last-modified times of the files to see when the prerequisites of a file have changed, implying that the file needs to be recreated as it is logically out of date. Cook also provides a facility for recipes, allowing users to specify how to form a file with a given suffix from a file with a different suffix. For example, to create filename.o from filename.c

<http://www.canb.auug.org.au/~millerp/cook.html>

(Added: Fri Mar 01 2002 Hits: 105 Rating: 8.00 Votes: 1) [Rate It](#) [Review It](#)

- **Cyclic autoconf/automake page**

<http://www.cyclic.com/cyclic-pages/autoconf.html>

(Added: Fri Mar 01 2002 Hits: 57 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Dmake**

dmake is a rewrite by Denis Vadura of the common UNIX Make utility. Both dmake and make scripting language are highly portable and where possible compatible with both BSD and SYSV AUGMAKE. dmake also boasts a large number of functionality enhancements over standard Make.

<http://dmake.wticorp.com/library.html>

(Added: Fri Mar 01 2002 Hits: 95 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **FinalBuilder - by AtoZed Software**

FinalBuilder is the premier automated build tool specifically designed for the Windows operating system. With built-in support for Microsoft, Borland and Java compilers, Version Control Systems, and with over 100 built-in actions, FinalBuilder will autom

entire build process - it even can burn your build directly to CD or DVD.

<http://www.atozed.com/finalbuilder>

(Added: Wed Nov 19 2003 Hits: 34 Rating: 9.40 Votes: 5) [Rate It](#) [Review It](#)

- **Free Make-oids for Unix-oids**

<ftp://sunsite.unc.edu/pub/Linux/devel/make/>

(Added: Fri Mar 01 2002 Hits: 55 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **G7x Build Manager**

Build Manager 2000 is an automated build and configuration management tool for Basic. It includes full integration with Visual SourceSafe, Custom pre & post build Component dependency analysis, resolve missing references by drag & drop and desktop' to launch / maintain multiple projects making up an application from a cen location. Easily configurable to suit any organisations configuration management n complete control over the build process with VB Scripting.

<http://www.g7x.com/>

(Added: Fri Aug 10 2001 Hits: 135 Rating: 7.00 Votes: 4) [Rate It](#) [Review It](#)

- **Gnu Make Manual**

[http://www.cygnum.com/library/make/make\\_toc.html](http://www.cygnum.com/library/make/make_toc.html)

(Added: Fri Mar 01 2002 Hits: 75 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **imake - related software and documents**

<http://www.primite.wisc.edu/software/imake-stuff/>

(Added: Fri Mar 01 2002 Hits: 63 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Jam - Make(1) Redux**

<http://www.perforce.com/jam/jam.html>

(Added: Fri Mar 01 2002 Hits: 66 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **m3build - SRC Modula-3 build tool**

<http://www.research.digital.com/SRC/modula-3/html/m3build/m3build.html>

(Added: Fri Mar 01 2002 Hits: 30 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Max - a free Makefile generator**

Max is a makefile-generator. It is fed by a short input-file that describes the structu package. Based on this data, a set of makefiles and a configure-script are created offer: compilation on many platforms, at the same time; support for both C and C+ files; support for shared library on most major systems; many clean/install/uninstal commands for make; an automatized `make depend`; coexistence with autoscans output mostly compliant with GNU standards. The makefiles that are created by m gmake to work. Max is used in places where imake or automake could be used ot However, max is more flexible than imake, and easier to use than automake. I hop is a good choice for those who don't want to spend much time worrying about mak still want all the comfort that many great freeware packages provide.

<ftp://ftp.uni-muenster.de/pub/linux/misc/>

(Added: Fri Mar 01 2002 Hits: 133 Rating: 6.00 Votes: 1) [Rate It](#) [Review It](#)

- **Odin - a replacement for Make**

Odin is a simpler, more reliable, and more powerful replacement for Make. It is de combine the simplicity and elegance of the original Make program with the power super-Makes. Some of Odin's features include: building several variants concurren single source tree; parallel builds on multiple remote hosts; persistent dependency with incremental update; building directly from arbitrary versions of RCS and SCC without requiring checkout of working copy; complete separation between build ru system definition

<ftp://ftp.cs.colorado.edu/pub/distribs/odin/>

(Added: Fri Mar 01 2002 Hits: 128 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **Openmake**

Openmake is a next generation build mangement tool designed to automate the c

reliable applications through the implementation of a standard and repeatable soft process.

Openmake eliminates the tedious task of coding build scripts using XML or makefile enabling an organization to standardize the build process for the enterprise.

Openmake delivers a single build process for Enterprise applications regardless of programming language or operating system.

<http://www.openmake.com>

(Added: Fri Jan 03 2003 Hits: 738 Rating: 8.81 Votes: 19) [Rate It](#) [Review It](#)

- **pmake**

<ftp://ftp.icsi.berkeley.edu/pub/ai/stolcke/software/>

(Added: Fri Mar 01 2002 Hits: 57 Rating: 0.00 Votes: 0) [Rate It](#) [Review It](#)

- **SCons: a Software Construction tool**

SCons is a software construction tool (build tool, or make tool) based on the winner in the Software Carpentry build tool competition. SCons is implemented in Python using the full power of a real scripting language to solve cross-platform build issues. Features superior parallel build (-j) support, automatic dependency scanning, easy extensibility, and reliable detection of changes using file signatures.

<http://www.scons.org/>

(Added: Thu May 09 2002 Hits: 94 Rating: 7.00 Votes: 1) [Rate It](#) [Review It](#)

- **Telelogic Synergy ObjectMake**

Telelogic CM Synergy ObjectMake™ is a fully object-oriented Make facility that provides high-performance, full-function management of your software development team's processes, boosting productivity and software quality. Compatible with common Make formats, ObjectMake is a seamlessly integrated part of the Telelogic Change Management solution. Your team will find ObjectMake easy to work with, using either the graphical command-line interface. Because ObjectMake is deeply integrated with CM Synergy ChangeSynergy, you'll have all the capabilities at hand to establish convenient, high performance builds.

<http://www.telelogic.com/products/synergy/objectmake.cfm>

(Added: Tue Oct 02 2001 Hits: 167 Rating: 9.00 Votes: 2) [Rate It](#) [Review It](#)

- **Visual Build**

Visual Build is a tool that enables developers, software process engineers, and business specialists to create an automated, repeatable process for building their software. Build provides built-in support for Microsoft Visual Basic, Visual C++, Visual J++, SourceSafe, Installer, eMbedded Tools, Borland Delphi, C++Builder, JBuilder, and Download the new build management solution for Windows and web developers to increase your productivity today! It's easy to put Visual Build to work doing all that labor for you so you can focus on more important things. Visual Build is a powerful, affordable build management solution that will automate the build process without commitment of time, and it works with the tools you're using today.

<http://www.kinook.com/VisBuild/>

(Added: Tue Sep 25 2001 Hits: 576 Rating: 8.91 Votes: 11) [Rate It](#) [Review It](#)

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